

Parcours Sustainable industrial engineering 2e année

Présentation

Industry is of critical importance for the global economy.

Industrial engineering is the branch of engineering that is concerned with the efficient production of industrial goods as affected by elements such as plant and procedural design, the management of materials and energy, and the integration of workers within the overall system.

Sustainable Industrial Engineering addresses the issue of sustainability of industry in three ways: from an environmental point of view, from a social and societal point of view, from an economical point of view.

Sustainable industrial engineering has myriads of application fields since it encompasses the whole value chain and lifecycle of products: from the development of new and innovative machines, products-services to the market and recyclability

The objectives are become a :

- * Project engineer
- * Development or research engineer
- * Business or consultant engineer
- * Production and supply chain engineer
- * Product architect
- * Consultant in Sustainable industrial engineering

Admission

To enter a 2nd year Master, you must hold a master 1st year or equivalent. Your curriculum must be in agreement with the master you wish to integrate. The recruitment and registration procedures are specified directly at the level of specialties. For the 3 courses in French, the choice of course is made after admission to the master Industrial engineering.

See Grenoble INP website: <http://www.grenoble-inp.fr/fr/formation/les-admissions>

Infos pratiques :

- > Composante : Grenoble INP, Institut d'ingénierie et de management
- > Durée : 1 an
- > Type de formation : Formation initiale / continue
- > Lieu :

Contacts

Responsable pédagogique

Hadj-Hamou Khaled

Khaled.Hadj-Hamou@grenoble-inp.fr

Secrétariat de scolarité

Scolarité Sustainable industrial engineering 2e année

genie-industriel.master.sie@grenoble-inp.fr

Programme

Master Industrial Engineering (GI) Sustainable Industrial Engineering program - Semester 3		
<small>Curriculum - Master GI SIE program - Semester 3</small>		
Courses and group of courses name	ECTS	hours per student
Intercultural Communication - WGUS3015	3.0	48.0
Master Thesis Tutorial - WGUS3025	3.0	48.0
Scheduling and Transportation - WGUS3035	3.0	48.0
Sustainable Design and Management - WGUS3045	3.0	48.0
Optional courses M2 SIE (3 courses in option) (choice of 3 child elements)	18.0	157.8
<i>Advanced Economics for Industrial Engineering - 5GUC0504</i>	6.0	54.0
<i>Advanced Manufacturing - 5GUC0804</i>	6.0	54.0
<i>iDesigner : Tackling Complexity by Integration - 5GUC0904</i>	6.0	30.0
<i>Industrialization : Sustainable Design of a Workshop - 5GUC1004</i>	6.0	54.0
<i>Product Industrialization : from Design to Manufacturing - 5GUC1104</i>	6.0	54.0
<i>The Global Firm - 5GUC1204</i>	6.0	54.0
<i>Lean Six Sigma - 5GUC1304</i>	6.0	54.0
<i>Purchasing Management - 5GUC1604</i>	6.0	54.0
<i>Strategic Management of the Supply Chain - 5GUC1804</i>	6.0	54.0
<i>Business Marketing - 5GUC1904</i>	6.0	54.0
<i>Methods in Tactical and Operational Supply Chain Management - 5GUC2004</i>	6.0	54.0
<i>Sustainable Manufacturing - 5GUC2304</i>	6.0	54.0
<i>Strategies and Organizations - 5GUC2604</i>	6.0	54.0
<i>Reliability and Risk Management for Industrial Systems - 5GUC2704</i>	6.0	54.0
<i>Additive Manufacturing - 5GUC3005</i>	6.0	54.0
<i>Flow Management and Multicriteria Decision - WGUGESF4</i>	6.0	54.0
<i>Knowledge Integration and Collaboration in Design - WGUKNOW9</i>	6.0	54.0
<i>Transport Logistics and Operations Research - WGULOGI9</i>	6.0	54.0
<i>Modelling and Optimization in Product Development - WGUMODE9</i>	6.0	54.0

Master Industrial Engineering (GI) Sustainable Industrial Engineering program - Semestre 4 : Master Thesis based on a mission in an industrial firm or a research laboratory in France or abroad